

**PALM BEACH COUNTY LIBRARY SYSTEM
GOVERNMENT DOCUMENTS**

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1 -- Ord #1

ORDINANCE NO. 96-7

2 AN ORDINANCE OF THE BOARD OF COUNTY
3 COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA,
4 REPEALING ORDINANCE 92-16, THE STANDARD
5 BUILDING, GAS, MECHANICAL, AND PLUMBING CODES,
6 1991 EDITION; ADOPTING THE STANDARD BUILDING,
7 GAS, MECHANICAL, AND PLUMBING CODES, 1994
8 EDITION, PROVIDING FOR APPLICABILITY; PROVIDING
9 FOR SAVINGS CLAUSE; PROVIDING FOR REPEALS OF
10 LAWS IN CONFLICT; PROVIDING FOR INCLUSION IN THE
11 CODE OF LAWS AND ORDINANCES; PROVIDING FOR
12 SEVERABILITY; AND PROVIDING FOR AN EFFECTIVE
13 DATE.

14 WHEREAS, pursuant to Chapter 90-445, Laws of Florida, as amended, the Board
15 of County Commissioners of Palm Beach County is empowered to adopt various updated minimum
16 construction codes for all municipal and unincorporated areas within Palm Beach County, including
17 but not limited to the Standard Building, Gas, Mechanical, and Plumbing Codes; and

18 WHEREAS, the Building Code Advisory Board of Palm Beach County has
19 recommended that the Board of County Commissioners of Palm Beach County adopt the Standard
20 Building, Gas, Mechanical, and Plumbing Codes, 1994 edition, as the minimum construction
21 standards within Palm Beach County.

22 NOW THEREFORE, BE IT ORDAINED BY THE BOARD OF COUNTY
23 COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA that:

24 **SECTION 1 - AUTHORITY**

25 This Ordinance is promulgated pursuant to Chapter 90-445, Laws of Florida.

26 **SECTION 2 - CODE REPEALED**

27 Palm Beach County Ordinance 92-16, the Standard Building, Gas, Mechanical, and
28 Plumbing Codes, 1991 edition is hereby repealed.

29 **SECTION 3 - CODE ADOPTED**

30 The Standard Building, Gas, Mechanical, and Plumbing Codes, 1994 edition, is
31 incorporated herein and adopted as the minimum construction code for all municipalities and
32 unincorporated areas within Palm Beach County, Florida.

SECTION 4 - APPLICABILITY

This ordinance shall be applicable throughout the incorporated and unincorporated areas of Palm Beach County. The provisions of the Standard Building Code, including Section 1606, shall apply to the construction, alteration, repair, equipment, use and occupancy, location, maintenance, removal and demolition, of every building and structure, including 1 and 2 family dwelling or any appurtenances connected or attached to such buildings or structures, unless specifically exempted by the Code.

SECTION 5 - SAVINGS CLAUSE

All provisions of Ordinance 92-16, as originally enacted and amended, are specifically preserved and remain in full force and effect for the limited purpose of enforcing any alleged violation of said ordinance, which violations occurred prior to its repeal.

SECTION 6 - REPEAL OF LAWS IN CONFLICT

Ordinance 92-16 is hereby repealed and all ordinances, or parts of ordinances of Palm Beach County, Florida, which are in conflict are hereby repealed. All or any part of those local laws which pertain to the municipal or unincorporated area of Palm Beach County, Florida, which conflict with this ordinance or parts of this ordinance are hereby repealed.

SECTION 7 - SEVERABILITY

If any section, paragraph, sentence, clause, phrase, or word of this ordinance is for any reason held by the Court to be unconstitutional, inoperative or void, such holding shall not affect the remainder of this ordinance.

SECTION 8 - EFFECTIVE DATE

The provisions of this ordinance shall become effective on June 1, 1996.

APPROVED AND ADOPTED by the Board of County Commissioners of Palm Beach County, Florida, on the 20th day of February, 1996

**PALM BEACH COUNTY, FLORIDA, BY ITS
BOARD OF COUNTY COMMISSIONERS:**

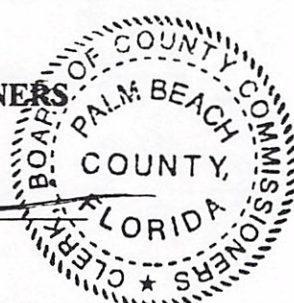
By: [Signature]

**DOROTHY H. WILKEN, CLERK
BOARD OF COUNTY COMMISSIONERS**

**APPROVED AS TO FORM
AND LEGAL SUFFICIENCY:**

By: [Signature]
COUNTY ATTORNEY

By: [Signature]
Deputy Clerk



Filed with the Department of State on the 29th Day of February, 1996.

1991 - 1994 SIGNIFICANT CODE CHANGES

The following summary of revisions reflect significant changes made to the 1991 Standard Codes that appear in the 1994 edition. The list is provided as a convenience to the code users and is not intended to be all inclusive. Summaries must be compared to actual revised text to determine the full meaning of each revision.

STANDARD BUILDING CODE

The Standard Building Code was reformatted in accordance with the CABO Common Code Format. The section numbers in this summary are based on the 1991 edition. The 1994 edition will include a cross-referencing index listing sections in the 1991 edition with the new section in the 1994 edition. This cross-referencing index will be included in a later edition of the magazine.

Chapter 1 - Administration

1991 / 1994

101.5.2 (3401.2)

Clarifies that change in occupancy subclassification requires entire building to conform to the intent of the technical codes.

Chapter 2 - Definitions

202 (202)

Deletes definitions for: Amusement Device, Attic Space Ventilation, Attic Story, Condominium Dwelling Unit, Front of Lot, Inner Court, Firestop, Fly, Lodging House, Rostrum Stage, Standard Fire Test, Temporary Seating, Working Stage. Adds definitions for: Aerosol, Aerosol-Container, Alarm Indicating Appliance, Awning, Manual Fire Alarm Box, Fire Command Station, Fireblock, Automatic Fire Detection System, Gypsum Sheathing, Gypsum Wallboard, Immiscible, Labeled, Miscible, Propellant, Roof Covering, Rooming House (Transient and Non Transient), Multiple-Station Smoke Detector, Single-Station Smoke Detector, Tenant, and Type X.

Revises definitions for: Control Area, Corridor, Mezzanine, Common Property Line, and Through Penetration Firestop System.

Chapter 3 - Referenced Standards (Chapter 35 - Reference Standardss)

Ch. 3 (Ch 35)

Updates reference standards.

Chapter 4 - Classification of Building Occupancy (Chapter 3 - Occupancy Classification)

402.2.2 (503)

Clarifies requirements for floor/ceiling construction between parking garages and Group R.

402.2.3.4 (503)

Provides reference to egress provisions in Chapter 11 for mezzanines.

402.2.6.1 (503)

Allows open-air grandstands of Type I, II, and IV to be unlimited height and area.

402.2.9 (503)

402.4.3 (503)

Clarifies that the 1- hour construction applies only to Type V construction

402.4.8 (503)	Reduces the permanent open space from 60 ft to 40 ft provided the fire resistance rating of the exterior wall is increased.
* 403.1.1 (303.1)	Clarifies which provisions must be met in order to consider a mixed occupancy building as a single occupancy building.
403.4.1 (704)	Clarifies that the exception applies to buildings of Group B or S occupancies, not to Group B or S occupancies within a mixed occupancy building.
403.5 (704.4)	Clarifies townhouse separation provisions.
403.5.1 (704.4)	Permits the use of an 18-inch parapet instead of the 4-foot horizontal projection.
403.5.2 (704.4)	
404.1 (304.1)	Deletes reference to 100 persons as restaurant classification in Group A.
404.2 (304.2)	Defines assembly use with less than 100 persons as Group B.
404.3 (403.1.2)	Changes title from "Occupant Capacity" to "Occupant Content". Moves provisions for occupant content from chapter 11 (10) to 404.3 (403.1.2).
404.4.6 (T. 700)	Adds exit enclosure provisions, which are already covered in Note 2 of Table 700, for assembly occupancies.
404.5 (803.3.2, 803.3.3)	Moves Group A interior finish provisions to 704.
404.6 (Deleted)	Moves Group A supplementary lighting provisions to 1117.1.2.
404.7 (403.2)	Rewrites stages and platforms section. Moves live load criteria to Chapter 12.
404.7.3 (403.2)	Allows fire retardant treated wood for the construction of permanent platforms in Types I, II, III, and IV construction.
404.11.1 (3103)	Requires tents for public assembly to meet both the small scale and large scale tests for flame resistance in NFPA 701.
405.1.3 (305.1)	Defines assembly use with less than 100 persons as Group B. Includes various Group A provisions in smaller assembly uses, even though classified as Group B.
405.2 (404.2)	Revises definition of automotive service station to allow use of underground and above ground tanks.
405.2.3 (404.2)	Deletes provisions for service station equipment adjacent to gasoline pumps, which are covered in detail in 907 of the SFPC.
408.1.2.1 (308.2)	Moves control areas for Group H from exception list to 408.1.2.2. Refers explosives provisions to Standard Fire Prevention Code. Clarifies proper use of batteries.
408.1.2.1 (308.2)	Adds Level 2 & 3 aerosols to the definition of an H3 occupancy.

408.1.2.1 (308.2)	References the SFPC for exempt amounts of flammable liquids in Group M occupancies.
408.1.2.1 (308.2)	Clarifies that pesticides used on premises are exempt from H4 requirements.
408.1.2.1 (308.2)	Adds NFIPA 30B reference and categorizes Level 1 aerosol products as a Level III commodity.
408.1.2.3 (308.2)	Adds method of classifying buildings with mixed Group H uses.
408.3.5 (407.2)	Revises alarm terminology.
408.3.9.4 (407.2)	Requires emergency illumination for Group H occupancies.
409.1.2.1 (409)	Requires smoke barrier doors to be in a publicly accessible area.
409.1.2.5 (409)	Adds reference to 903 for installation of smoke detectors.
409.1.3.2 (409)	
409.1.3.3 (409)	
409.1.5 (409)	Rearranges tabled hazardous areas for classification in Group I Unrestrained occupancies.
409.1.6 (409)	Adds fire department notification option and proper reference to sprinkler supervision.
409.1.7 (409)	
409.1.8 (409)	
409.2.10 (409)	Revises terminology to be consistent with NFIPA 71, NFIPA 72, and NFIPA 72E
409.2.11 (409)	
409.2.12 (409)	
409.2.13.5 (409)	Deletes provisions for standpipes and hose systems covered in 902.
409.2.18.2 (409)	Revises alarm terminology.
411.1.2 (311)	Deletes the length of time of stay for a hotel or motel guest.
412.1.6 (411)	Adds NFIPA 70 reference for storage battery provisions.
412.5.4 (411)	Clarifies that automobile ramps are not allowed as exits in parking garages.
412.5.6 (411)	Deletes Exception #2 which permitted a 20-minute door in any occupancy separation.
412.5.7 (411)	Allows small garages to be Type VI construction. Adds provisions clarifying the separation requirements between an automobile parking garage and a room in which there is a fuel-fired appliance.
Table 400 (Table 500)	Increases allowable area for Group H4. Clarifies that the building area for determination of allowable areas is the "area, building" defined in 202.

Chapter 5 - Special Occupancy Requirements (Chapter 4 - Special Occupancy)

- 505.2 (3104) Permits enclosed walkways to be of unprotected noncombustible construction
- 506.2 (412) Rewrites provisions for smoke detectors in air distribution systems.
- 506.2 (412) Revises terminology to be consistent with referenced standards and
506.3 (412) deletes provisions that are specifically covered in the referenced standards.
506.4 (412)
506.6.3 (412)
506.7.3 (412)
506.9.5 (412)
506.10.2 (412)
- 506.10.3 (412) Updates provisions to be consistent with 1206.1.
- 506.10.4(3) (412) Clarifies the sprinkler omission for areas in telecommunication buildings.
- 506.11 (412) Restricts reduction of shaft rating to buildings less than 250 ft high.
- 506.11(2) (412) Revises terminology to be consistent with referenced standards.
- 506.11(5) (412) Clarifies provisions for the stair pressurization system.
- 506.12 (412) Deletes seismic provisions to be consistent with 1206.1.
- 507 (413) Changes section title from "Covered Malls" to "Covered Mall Buildings."
- 507.3.1 (413) Clarifies occupant load calculations for covered mall buildings and that anchor stores are not included in the calculation of the leasable area.
- 507.3.2 (413) Deletes provisions which are not code requirements.
- 507.3.4 (413) Clarifies that the travel distance may be measured from the tenant space entrance to the mall
- 507.3.5 (413) Rearranges egress provisions from mall tenant spaces.
- 507.3.6 (413) Clarifies that minimum widths apply to means of egress not just the exits in covered mall buildings.
- 507.6 (413) Clarifies that occupancy separation between adjacent tenants in covered mall buildings need only be 1-hour.
- 507.6.1 (413) Adds Group B occupancy to the list of accessory uses permitted within covered mall buildings. Clarifies that accessory uses within covered mall building are not permitted to exceed the sprinkler area limitation or be located at a height greater than that permitted for such occupancy for the type of construction being used.
- 507.7 (413) Revises terminology to be consistent with referenced standards.
- 507.8 (413) Clarifies that a 2 1/2 inch fire department connection is required.

- 507.9 (413) Deletes reference to the SFPC for fire extinguisher provisions.
- 508 (Ch 11) Rewrites provisions for accessibility for the physically disabled. Adds ADA and Fair Housing provisions.
- 509.6 (414) Clarifies smoke detector location, permits projected beam-type detectors, and requires detectors to be accessible for maintenance and testing.
- 510.3 (415) Revises terminology to be consistent with referenced standards.
 510.5.3 (415)
 510.5.4 (415)
 510.6 (415)
 510.7 (415)
 510.10 (415)
- 513.2 (403.5) Adds reference to 903 for installation of smoke detector. Revises terminology to be consistent with referenced standards.
- 513.4.3 (403.5) Clarifies that a public address system installed in accordance with NFPA 72 is required.

Chapter 6 - Classification of Buildings by Construction (Construction Types)

- 601.2.2 (601.3.2) Moves 608.4 to 601.2.2 as an exception.
- 601.3 (601.4) Revises terminology from "fire protection" to "fire resistance."
- 602 (603) Adds beams, girders, trusses and arches to description of construction types.
- 604.6 (605.6) Changes "plywood" to "wood structural panels".
- 608.4 (701.5) Moves 608.4 to 601.2.2 as an exception.
- 611 (2603) Moves 611 to 717 and eliminates testing for panels with noncombustible faces.
- * 611 (2603) Adds test procedure for ignition of exterior walls.
- 611.1 (2603) Adds minimum thickness for metal faced panels.
- Table 600 (Table 600) Changes title to "Fire Resistance Ratings."
- Table 600 (Table 600) Clarifies that ratings are required for elements supporting columns.
- Table 600 (Table 600) Adds the terms "floors" to floor/ceiling construction and "roofs" to roof/ceiling construction.
- Table 600 (Table 600) Allows reduced fire resistance for structural elements in Group A with legitimate stages.
- Table 600 (Table 600) Divides reference note "e" into reference notes "e" and "p."

Table 600 (Table 600) Deletes the "exterior grade" requirement for fire retardant treated wood.

Chapter 7 - Fire Protection Requirements (Fire Resistant Materials and Construction)

Ch. 7 (Ch. 7) Changes "plywood" to "wood structural panels".

Table 700 (Table 700) Adds minimum fire resistance and opening protectives for occupancy separations and exterior walls. References entire 702.4 in note #4.

701.3.1 (705.2) Clarifies that both Table 700 and the floor rating applies to shaft enclosure fire resistance.

702.1.4 (704.2) Clarifies that the 25% rule applies to the separation between individual tenant space and the corridor.

702.1.5 (704.2) Clarifies that the signage is required only for fire-rated walls which require protected openings.

702.2.2 1 (609) Reformats exception for FRTW in Type I and II construction.

702.4 (704.2) Clarifies provisions for partitions within a single tenant space.

702.4(1) N/A Deletes item.

702.4(2) (704.2) Clarifies that the location of partitions is restricted by the method of construction.

702.4(3) (704.2) Changes "a flamespread" to "an interior finish" to agree with title of 704.

703.2 (1405) Moves provisions to 718.

703.3 (705.1) Revises section to correlate with 510 of the SMC.

703.3.2 (705.1) Deletes redundant section on size of door openings in rated walls.

703.3.3 (705.1.2, 705.2.1.4) Adds fire damper choice for static or dynamic test.

703.3.3 (705.1.2, 705.2.1.4) Deletes fire damper exception in shaft walls of sprinklered buildings.

703.3.4 (705.1) Changes "floor" to "story".

703.3.7 (705.1) Clarifies that opening protectives are not required if the fire resistance is due to construction type only.

703.4.6 (705.1) Permits the use of glazing materials, other than 1/4 inch thick wired glass.

704.1.2 (803) Requires wainscoting and panelling to meet interior finish requirements.

704.2 (803) Clarifies that interior finish provisions do not apply to floors.

704.3 (803) Exempts floor finishes from interior finish requirements.

Table 704.3 (Table 803.3)	Reformats table to place less restrictive requirements in footnotes.
704.4 (803)	Moves foam plastic interior trim provisions to interior trim section.
704.4 (803)	Deletes low density foam from interior finish provisions.
704.9 (707.1)	Adds provisions addressing the use of combustibles.
704.9.1 (707.1)	Moves provisions to 1004.1
704.9.2 (707.2)	Moves provisions to 1004.2
704.10 (707.2)	Moves provisions to 720
706.1 (1509)	Adds listing requirement for all roof covering systems.
706.2 (1509)	Allows an approved laboratory, inspection agency, or other organization to certify performance.
706.5 (1509)	Moves roofing provisions to Chapter 32.
706.6 (1509)	
706.7 (1509)	
706.8 (1509)	
706.6.1 (1509)	Adds minimum grade requirements for hip and ridge units.
707 (2407)	Moves sloped glazing provisions to 2705.
707 (2407)	Relocates fire, party, and parapet walls from Table 600 notes to text in Chapter 7.
708 (1503.2.1#5)	Redefines allowable construction of dormers.
709.2 (1404)	Relocates construction provisions for exterior balconies on buildings more than three stories in height.
710.2 (3106)	Clarifies that the textile covering for a canopy need only comply with NFIPA 701.
710.2(3106)	Requires textile canopy to pass both small and large scale tests in NFIPA 701.
717.4 (2603)	Clarifies the applicable building construction types.
717.4 (2603)	Moves foam plastic provisions for one story buildings out of multistory section.
718 (1405)	Combines 703.2 with 718 to create a single section dealing with access through exterior walls for the fire department.
718.1 (1405)	Refers to SFPC for fire department access to high piled storage.
719.4 (708)	Adds testing method and criteria for loose fill insulation.
719.7 (708)	Moves provisions of 719.1 through 719.3 to this section.

- 719.7 (708) Adds ASTM reference for cellulose fiber thermal insulation.
- 720 (707.2) Moves plenum provisions from 704.10.

Chapter 8 - Appurtenance Requirements

- Ch. 8 Changes "plywood" to "wood structural panel".
- 803.1 (2113) Adds fireplace construction details to Chapter 8.
- 804.3 (2114.3) Adds criteria for fireplace firebox depth and area of throat.
- 804.3.4 (2114.3) Clarifies the method to measure the hearth
- 806.1.1 (704.1.3.3) Permits steam boilers to be installed in a Group F occupancy without protection.
- 806.1.1 (704.1.3.3) Deletes input capacity for central heating boiler.
- 806.1.2 (704.1.3.3) Deletes Group I occupancy to eliminate conflict with 409.1 and 409.2.
- 806.3 (704.1.3.3) Adds separation provisions for Level 2 machine room.
- 811.1.4 (1403) Adds flashing, weephole location for masonry walls.
- 811.2 (1403) Adds minimum sheathing requirement for masonry attached to walls.
- 811.2.2 (1403) Allows anchored veneer on wood foundations; clarifies lateral support of anchored veneer.
- 811.2.3 (1403) Adds dimensional deflection limit for veneer supports.
- 811.4.3 (1403) Corrects reference to moisture protection of wood supports for metal veneer.
- 813 (2701) Adds provisions for transformers installed indoors and transformer vaults by referencing NFPA 70.

Chapter 9 - Sprinklers, Standpipes and Alarm Systems (Chapter 9 - Fire Protection Systems)

- 901.6 (903) Revises provisions to eliminate conflicts with 3501.1.2 of the SFPC, 5-1 of NFPA 88A, and 4.1 of NFPA 88B.
- 901.7.2 (903) Adds criteria for sprinkler protection of stages.
- 901.8 (903) Revises terminology to be consistent with referenced standards.
- 902 (904) Rewrites provisions for standpipes.
- 902.3.2 (904) Requires standpipes on stages larger than 1000 sq ft.

- 902.3.6 (904) Requires standpipes on buildings greater than 10,000 sq ft per floor.
- 902.4.1 (904) Deletes manual dry standpipe system.
- 903 (905) Rewrites provisions for fire alarms.
- 903.2.5 (905) Requires battery backup for smoke detectors.

**Chapter 10 - Fire Resistance Standards
for Materials and Construction**
(Chapter 7 - Fire Resistant Materials and Construction)

- 1001.1.4 (701.2) Deletes provisions prohibiting combustible materials from entering into the construction of assemblies.
- 1001.3.2.3 (705.4.3) Allows electrical outlet boxes in all fire resistant walls.
- 1001.3.5.2 (705.4.3) Permits the use of concrete, grout, or mortar to seal the annular space around noncombustible penetrations of concrete and masonry assemblies.
- 1001.3.6 (705.4.3) Requires listing for method E products.
- Table 1001.3 (Table 705.4.4) Adds method C for noncombustible penetrations through three floors or more and through two floors maximum but limits the pipe or tube to a 4 inch nominal size.
- 1002.11.2(4) (1709.1.1) Permits greater tolerances when installed in accordance with the publications listed in 1003.1.2.
- 1003.1.2 (701.4) Adds SBCCI PST & ESI to the list of acceptable publications.
- 1004 (707.1) Moves provisions from 704.9.

Chapter 11 - Means of Egress (Chapter 10)

- Table 1103.1 (Table 1003.1) Specifies whether mercantile areas are open to public or not.
- Table 1103.1 (Table 1003.1) Changes the term "standing space" to "waiting space" and lowers the maximum occupancy content to 5 sq ft per person.
- 1103.3.2 (1003.2.2) Clarifies that doorway clear width is meant to be the clear width with no jamb or stop protrusion.
- 1103.3.3 (1003.2.3) Adds limitations for objects protruding into usual walking areas.
- 1103.3.4 (1003.2.4) Adds height restrictions from a walking surface to the lowest part of any structural member, fixture, or furnishing.
- 1103.4.2 (1003.3.2) Clarifies egress width for exit stairways.

1103.4.5 (1003.3.5)	Clarifies that the capacity of the exit from the intermediate floor need not exceed the sum of the required capacities of the upper and lower floor. Deletes last sentence to avoid duplication of the second sentence.
1103.5 (1003.4)	Allows elevators to be used as an accessible means of egress for people with physical disabilities per 508.
1104.1.2 (1004.1.2)	Clarifies that the exception applies only to 1-hour rated corridors.
1104.1.4 (1004.1.4)	Applies separation to exits in general, not just exit doors.
1104.2.1 (1004.2.1)	Revises terminology to be consistent with occupancy classifications.
Table 1104 (Table 1004)	Moves Note 10 from heading to applicable occupancies.
1105.4.1 (1005.4.1)	Requires emergency egress windows to open directly to the outside.
1105.7 (1005.7)	Adds provisions for burglar bars.
1106.1 (1006.1)	Revises occupancies that allow unprotected exterior stairs.
1106.2 (1006.2)	
1106.1.1 (1006.1.1)	Clarifies enclosure requirements for stairs in parking garages.
1106.1.5 (N/A)	Deletes duplications of provisions in 1108.2.
1106.2.2 (1006.2.2)	Clarifies permitted use of exterior stairs.
1106.2.7 (N/A)	Deletes section since it addresses stairway construction and not stairway protection.
1106.2.8 (N/A)	Deletes ambiguous language in 1106.2.8 and 1115.1.3 to avoid conflicts.
1107 (N/A)	Deletes cross reference for monumental stairs.
1108.1.2 (1007.1.2)	Restates that enclosed stairs cannot have open risers.
1108.2 (N/A)	Deletes provisions. Moves provisions from 1106.1.5, clarifies that section applies to all stairs.
1108.3 (1007.3)	Deletes redundant language for measuring tread depth.
1108.3 (1007.8)	Reformats special stair tread/riser provisions.
1108.4 (1007.8)	
1108.3.4 (1007.8)	Adds provisions for measuring winders and tapered treads.
1108.3.5 (1007.8.3)	Allows circular stairs in R3 occupancies to have a minimum tread depth of 9 inches and smaller radius less than twice the stairway width.
1108.4.3 (1007.4.3)	Requires guardrail at stair return even if 12 inches or less between flights.

1108.5 (1007.5)	Revises handrail provisions by transferring accessibility provisions from ANSI A117.1 into code language.
1108.5.1 (1007.5.1)	Editorial revision to handrail requirements when four or more risers.
1108.5.3 (1007.5.3)	Provides details of equivalent graspability for handrails.
1108.7 (1007.7)	Clarifies measurement for headroom at landings.
1108.8.1 (1007.8.1)	Increases minimum winder tread depth from 9 to 11 inches.
1108.8 (1007.8.4)	Places criteria for alternating tread stairs in one location.
1110.1.3 (1009.1.3)	Moves provisions from 1110.3.2.
1110.3 (N/A)	Deletes provisions adequately covered in 1110.4
1113.1.1 (1012.1.1)	Replaces exceptions for 32-inch doorway width for interior doors within a dwelling unit.
1113.1.1 (N/A)	Deletes 6'-8" doorway height to avoid duplication of 1103.3. Deletes the exception for interior dwelling units.
1113.1.2 (1012.1.2)	Allows horizontal sliding doors in areas of refuge, smoke barriers and spaces with occupant load less than 50 persons.
1113.1.3 (1012.1.3)	Clarifies that number of room doors is based on occupant load, not occupant content.
1113.1.4 (1012.1.4)	Moves exceptions from level landings to include thresholds and small level changes.
1113.1.7 (1012.1.7)	Adds provisions for landings on the exterior side of egress doors in Group R) occupancies.
1113.3.2 (1012.3.2)	Prohibits revolving doors from being located within 10 ft of the entrance or exit of a moving walk.
1114 (1013)	Revises ramp provisions by transferring accessibility provisions from ANSI A117.1 into code language.
1115.1.3 (N/A)	Deletes ambiguous language in 1106.2.8 and 1115.1.3 to avoid conflicts.
1115.1.5 (1014.1.4)	Moves construction provisions for balconies from 709.2.
1116.1 (1115.1)	Clarifies wording in exception #1.
1116.2 (1115.2)	Requires glass guardrails to comply with 2703.5.
1117.1.2 (1016.1.2)	Clarifies that the emergency lighting requirements are based on occupant load,
1117.2.5 (1016.1.2)	not occupant content.

1117.1.2 (1016.1.2)	Requires emergency lighting capability for 1 1/2 hours and revises lighting criteria.
1117.2.2 (1016.2.2)	Requires exit doors to exit stairways to have tactile signage complying with ANSI A117.1.
Table 1117 (Table 1016)	Adds emergency lighting requirements for Hazardous occupancies.
1120.1.1 (1019.1.1)	Reduces the requirement for sizing secondary exit capacity for Group A from 2/3 to 1/2.
1120.2.2 (N/A)	Deletes requirements for foyer at same level at back of auditoriums.
1120.4 (1019.4)	Adds new exiting criteria for stages and platforms.
1120.7.2 (1019.7.2) 1122.2.1 (1021.2.1)	Allows latch or lock on Group A and E occupancies with greater than 100 occupants only if doors are equipped with panic or fire exit hardware.
1120.7.2 (1019.7.2)	Deletes 100 occupant restriction on Group A occupancy doors with panic/fire exit hardware, since fewer occupants do not constitute a Group A occupancy.
1120.11.6.1 (1019.11.6.1)	Clarifies assembly seating criteria.
1120.11.10 (1019.11.10)	Adds provisions for calculating egress width for outdoor seating.
1121.1 (1020.1)	Clarifies that Group B occupancy floor area less than 3500 sq ft can be served by a single exit.
1122.1 (1021.1)	Clarifies that "nurseries and kindergartens" are educational occupancies for first grade children and younger.
1125.2.9.4 (1024.9.4)	Adds Use Condition 3 to remote unlocking waiver.
1125.2.9.5 (1024.2.9.5)	Deletes redundant emergency power provisions for power-operated doors and locks.
1127.1.1 (1026.1.1)	Clarifies that common exit provisions actually apply to R1 and R2 occupancy categories.
1127.4.2 (1026.4.2)	Rewords provisions for clarity.

Chapter 12 - Minimum Design Loads (Chapter 16 - Structural Loads)

1204 (1605)	References ASCE 7 for snow loads.
1205 (1606)	Rewrites provisions for wind loads.
1205.1.1 (1606.1.1)	Permits use of SSTD 10-93 for R2 and R3 buildings.
1205.1.1 (1606.1.1)	Permits use of ANSI FP 1001-90 for Design of Metal Flagpoles.

- 1205.2.3 (1606.2.3) Revises definition of Components and Cladding and clarifies that roof coverings must comply with 1205.
- 1205.2.4.1 (1606.2.4.1) Deletes 20-ft minimum end zone for buildings under 60 ft; deletes reference to end zone openings in Group R3 buildings; clarifies application of end frame load.
- 1205.2.4.2 (1606.2.4.2) Clarifies that each wind load direction and torsion must be considered separately.
- 1205.2.6 (1606.2.6) Adds simplified wind load design method for enclosed buildings with vertically spanning walls.
- Table 1205.2A (Table 1606.2A) Revises wind load velocity pressures.
- Table 1205.2 Adds note to correct base shear values for wide buildings.
B,C,B1,B2
(Table 1606.2
B,C,B1,B2)
- Table 1205.2B (1606.2B) Adjusts MWFRS end zone coefficients for roof angles 20° - 30°.
- Fig. 1205.2D (Fig. 1606.2D) Revises component and cladding roof coefficients for enclosed buildings.
Fig. 1205.2E (Fig. 1606.2E)
- 1205.3 (1606.3) Adds wind load provisions for tile roof coverings.
- 1206 (1607) Revises earthquake loads to meet 1991 NEHRP.
- Table 1206.3.3 (Table 1607.3.3) Adjusts design factors (R and C_d) for ordinary and intermediate frames of R and C.
- Table 1206.3.7 (Table 1607.3.7) Increases allowable drift for multistory buildings.
- 1206.6.4 (1607.6.4) Allows use of NFPA 13 for earthquake protection of sprinkler systems.
- 1207.2.3 (1608.2.3) Clarifies that guardrail impact loads are for automobile parking garages only.
- 1208 (1609) Allows use of allowable stress design for load combinations including seismic loads.
- 1208 (1609) Rewrites provisions for load combinations
- Table 1210.1 (Table 1610.1) Adds deflection limits for secondary members supporting metal roofing or siding.

Chapter 13 - Foundations (Chapter 18 - Foundations and Retaining Walls)

- 1302.1 (1804.1.8) Requires removal of foreign materials from soil before construction of foundation.
- 1302.3.3.3 (1804.3.3.3) Clarifies that the only "accepted engineering practices" are the WRI/CRSI and PTI documents referenced.

- 1302.5.3 (1804.5.3) Expands provisions for foundation seismic ties.
 1302.5.4 (1804.5.4)
- 1302.6.2.4 (1804.6.2.4) Adds provisions for pier and curtain wall construction.
 1302.6.2.5 (1804.6.2.5)
- 1302.6.3 (1804.6.3) Clarifies that the ventilation openings are to be of equal size totaling a minimum of 50% of the required openings.
- 1302.6.3 (1804.6.3) Moves crawl space criteria from Chapter 17 to Chapter 13.
- 1302.9 (1804.9) Adds seismic provisions.
- 1302.9.1 (1804.9.1) Expands provisions of soil report in Seismic Category D and E.
- 1303.4.3 (1805.4.3) Expands provisions for foundation seismic ties.
 1303.10.2 (1805.10.2)
 1305.4 (1807.4)
 1306.4.2 (1808.4.2)
 1307.1.4 (1809.1.4)
 1307.5.5 (1809.5.5)
 1308.3.6 (1808.3.6)
 1308.3.7 (1808.3.7)
 1311.7 (1813.7)
- 1305.2 (1807.2) Changes the allowable compressive design stress for steel piles.
- 1309.2.4 (1811.2.4) Changes timber pile treatment specification.

Chapter 14 - Masonry Construction (Chapter 21 - Masonry)

- Ch. 14 (Ch. 21) Revises chapter content and format to be consistent with ACI 530.
- 1403.6.2 (2103.1) Corrects reference to ACI 530/ASCE 5.
 1403.6.3 (2103.2.1)
- 1405.3 (2107) Reduces minimum dimension between lateral supports from 45 to 36 times the nominal wall thickness. Adds exception for cantilevered walls.
- 1408.3.1 (2110.3.1) Deletes "attached in a manner to be self releasing."
- 1409.4 (2101.3.2) Adds third exception for support of interior masonry veneer.
- 1409.7 Corrects reference to ACI 530/ASCE 5.
 1411.1
 1411.2
- 1413 (2103.3, 2115) Adds seismic provisions for masonry construction.
- 1413 (2115) Adds details for spacing of masonry reinforcement.

Chapter 15 - Steel Construction (Chapter 22 - Steel)

Ch. 15 (Ch. 22)	Changes structural steel seismic provisions to reference AISC specification; references AISI cold-formed steel design requirements for ASD and LRFD.
1503.1 (2204.1)	Revises terminology to be consistent with referenced standards. Adds reference to AISI LRFD.
1503.2 (2204.2)	Corrects reference to ASCE 8.
1503.3 (2204.3)	Adds seismic provisions for cold-formed steel.
1503.4 (2204.4)	Adds design provisions for steel deck diaphragms.
1505.2 (2205)	Adds seismic design requirements for steel joists.
1506.2 (2206.2)	Adds design provisions for structural steel cables.
1508 (2208)	Revises referenced standards for high strength steel bolts.
1512 (2212)	Adds seismic provisions for structural steel construction.

Chapter 16 - Concrete Construction (Chapter 19 - Concrete)

Ch. 16 (Ch. 19)	Changes the term "cement" to "cementitious material" and revises section to correlate with ACI 318.
1601.2 (1901.2)	Adds reference to 1611 (1912) and 1612 (1913) for seismic provisions of reinforced concrete and plain concrete respectively.
1603.6	Moves sections to correspond with ACI 318.
Fig. 1603 (Fig. 1904)	Updates weathering probability map for concrete.
1608 (1909)	Reformats concrete slab on ground provisions.
1608.2 (1909.2)	Requires sealing rather than taping of vapor retarders.
1611 (1912)	Adds seismic provisions for reinforced concrete.
1611.2.2 (1912.2)	Adds additional design requirements for anchor bolts in concrete.
1612 (1913)	Adds seismic provisions for plain concrete.

Chapter 17 - Wood Construction (Chapter 23 - Wood)

Ch. 17 (Ch. 23)	Changes "plywood" to "wood structural panels".
1701.3 (2301.4)	Adds lumber standard USDOC PS 20-70

- 1701.4 (2301.4) Deletes reference to composite veneer flakeboard framing.
- 1701.4.5.1 (2301.4.5.1) Corrects Structural Board Association's name.
- 1701.4.12 (2301.4.11) Adds reference to ASTM D 5055 for prefabricated wood I-joist design.
- 1701.8.2 (2301.8.2)
1701.8.5 (2301.8.5) Requires quality mark for fire retardant treated wood.
- 1703.1.2 (2304.1) Deletes reference to National Pest Control Association standards.
- 1703.1.3 (2304.1.2) Adds provisions for soil treatment under concrete slab on ground.
- 1704.1.4 (2305.1.4) Clarifies that intersection of wood stud wall and floor systems requires firestopping.
- 1704.2.4 (2305.2.4) Exempts single family dwellings from cornice draftstopping.
- Table 1705.1 (Table 2306.1) Changes minimum thickness of particleboard siding from 3/8" to 5/16".
- 1705.2 (2306.2) Requires fasteners to be installed in accordance with a listing rather than a manufacturer's instruction.
- 1705.3 (2306.3) Revises terminology to be consistent with the remainder of the Code.
- 1706.1 (2307.1) Reduces bolt spacing from 6 ft to 4 ft. Adds exception for certain wood-framed buildings.
- Table 1706.6A (Table 2307.6B) Adds 24/16 span rating and single floor grade to roof sheathing.
- Table 1706.6A (Table 2307.6B) Revises span table for wood structural panel sheathing.
- Table 1706.6C (Table 2307.6D) Adds 32-inch span rating for single floor grade subfloor/underlayment.
- Table 1707.1A (Table 2308.1B) Modifies wall sheathing table to include all wood structural panels covered in PS2.
- 1707.1.5 (2308.1.5) Adds exception for certain wood-framed buildings.
- 1707.1.5 (2308.1.5) Clarifies the minimum thickness and width of the bottom plate.
- 1707.2.1 (2308.2.1) Prohibits the use of wood spacers, backup cleats, or other devices for wood stud walls which have a fire resistance rating or shear capacity.
- 1707.2.2 (2308.2.2) Revises the scope of wall bracing requirements.
- 1707.2.2 (2308.2.2) Adds provisions for wood-framed building where seismic analysis is not required.

Tables Revises wall bracing and fiberboard shear wall table to reflect 1991 NEHRP.
 1707.2.2A
 &1707.2.4
 (Tables 2308.2.2A & 2308.2.2B)

1707.2.3 (N/A) Deletes section in its entirety.

1707.2.5 (2308.2.3) Adds provisions for fiberboard sheathing.

1708.2.3 (2309.2.2) Updates truss bracing recommendations.

Table 1708.3A (Table 2309.3A) Revises roof sheathing table for wood structural panels.

Table 1710.2B (Table 2310.2B) Revises shear wall table for wood structural panels.

Table 1710.2A (Table 2310.2A) Revises horizontal diaphragm table for wood structural panels.

1710.3 (2310.3) Revises and moves notes from Tables 1710.2A and 1710.2B.
 1710.4 (2310.4)

1710.4 (2310.4) Adds 7/16-inch panel nailing schedule; updates text to reflect changes to Table 1710.2B

1711.3 (2311.3) Revises and moves notes from Tables 1711.2A and 1711.2B.
 1711.4 (2311.4)

1712 (2312) Adds seismic provisions for wood-framed construction.

1712.3 (2312.3) Deletes strength design table for wood diaphragms resisting seismic loads.

1712.4.6 (2312.4.6) Revises shear panel text to reflect wood structural panels.

Chapter 18 - Lathing, Plastering, and Gypsum Construction (Chapter 25 - Gypsum Board and Plaster)

1805.1.1 (2506.1.1) Requires panel size and arrangement of vertical gypsum board diaphragms designed to resist seismic forces to comply with 1712.4.8.

Table 1805 (Table 2506) Adds shear capacities for woven or welded wire lath and portland cement plaster and gypsum lath, plain or perforated.

Chapter 20 - Light, Ventilation and Sanitation (1203)

2001.2.1 (120.2.1) Allows 7-ft ceiling in storage and laundry rooms.

2001.2.4 (1203.2.4) Applies minimum room sizes to net floor area.

Chapter 22 - Use of Public Property (Chapter 32 - Construction in the Public Right of Way)

2201.2.2 (3204.2) Clarifies that textile coverings are to conform to NFPA 701.

- 2201.2.2 (3204.2) Requires both small and large scale NFPA 701 tests for textile coverings.
- 2201.2.2 (3204.2) Adds flamespread requirements for combustible awnings, canopies, & marquees.
- 2201.2.4 (3204.2) Reduces the roof live load from 40 psf to 5 psf for marquees or canopies.

Chapter 24 - Elevators, Dumbwaiters, Escalators, Moving Walks (Chapter 30 - Elevators and Conveyors)

- 2401.2 (3001.3) Requires passenger elevators to comply with ANSI A117.1 for accessibility.
- 2402.1 (3003.1) Adds exit access and door locking requirements for elevator lobbies.
- 2402.8 (3003.8) Clarifies that change in use would require elevator modification.

Chapter 25 - Structural Tests (Chapter 17 - Structural Tests and Inspections)

- 2505.3.1 (1707.3.1) Increases load duration criteria for wood fasteners not to exceed criteria in 2505.3.1 (1707.3.1), 2505.3.2 (1707.3.2), and 2505.3.3 (1707.3.3).
- 2505.3.1 (1707.3.1) Requires labeling/listing of wood connectors and exterior window and door assemblies.
- 2505.5.1 (1707.5.1) Adds overturning test for concrete and clay roof tiles by referencing a new SBCCI Standard for Determining the Wind Resistance of Concrete or Clay Roof Tiles.
- 2505.5.1 (1707.5.2) Adds wind tunnel test for concrete and clay roof tiles by referencing a new SBCCI Standard for Determining the Wind Resistance of Concrete or Clay Roof Tiles.

Chapter 26 - Light-Transmitting Plastics (2604)

- 2602 (2604.3) Adds restrictions for plastic panels in exterior walls.
- 2603 (2604.4)
- 2614 (2604.15) Adds size and encasement requirements for interior plastic signs.

Chapter 27 - Glass (Chapter 24 - Glass and Glazing)

- 2703.1 (2405.1) Clarifies that wire glass is exempt from CPSC testing when installed in fire doors, fire windows, or view panels.
- 2703.2.2 (2405.2.2) Adds mirrors to hazardous location list, except when attached to solid walls.
- 2703.2.1 (2405.2.1) Deletes duplicated text and requires safety glass on all swinging doors.
- 2703.2.1 (2405.2.1) Requires safety glazing when used in pool walls/fences.

2703.2.1(1) (2405.2.1) Deletes reference to wire glass.

2703.3 (2405.3) Revises wind load factors for glass.

2704.3 (2406.3) Adds provisions for structural silicone glazing systems.

Chapter 30 - Fire District (Appendix F)

Ch. 30 (App. F) Consolidates fire district provisions into Chapter 30 (Appendix F). Moves entire chapter to Appendix F

3005(12) [F105(12)] Adds exception for wood veneers conforming to 811.6.8 (1403.6.8).

Chapter 31 - Calculated Fire Resistance (709)

3102.4.2 (709.2.4.2) Clarifies that the minimum cover is measured to the longitudinal reinforcement.

Table 3103.1 (Table 709.3.1) References ASTM C 140 to determine equivalent thickness. Deletes ASTM C 145.

3103.3 (709.3.3) Adds methods for determining fire resistance of multiwythe masonry walls with or without air spaces.

3103.4 (709.3.4) Adds provisions for determining fire resistance of concrete masonry lintels.

3103.5 (709.3.5) Adds provisions for determining fire resistance of concrete masonry columns.

Tables 3104.1 (Tables 709.4.1) Updates existing tables with new fire resistance ratings for masonry.

3105.1 (709.5.1) Changes the term "fire protection" to "fire resistant."

3105.2 (709.5.2)

3105.1.4.6 (709.5.1.4.6) Adds provisions for determining fire resistance of steel columns protected with concrete masonry units.

3105.2.4 (709.5.2.4) Adds criteria for determining conditions of restraint.

3106 (709.6) Revises calculated fire resistance tables by changing "plywood" to "structural wood panels".

Chapter 32 - Installation of Roof Coverings (1509)

3201 (1509.1.1) Changes references from "Standard" to "Chapters" for roof installation chapter.

3202.1.3 (1509.1.2.3) Requires low slope roofs to have a minimum of 1/4 in/ft.

3202.2 (1509.3) Adds wind load provisions for roof coverings.

3202.2.4.1 (1509.3.5) Reduces threshold wind speed for six nails per shingle from 100 to 90.

3202.3.3 (1509.1.5)	Defines nail location for composition flashing.
3202.3.4 (1509.1.4)	Moves tin cap and nails to fastener section.
3202.3.5 (1509.1.4)	
3202.4 (N/A)	Deletes 25% requirement for roof covering replacement.
3204.2.3 (1509.4.2.3)	Requires asphalt shingles to be fastened along the rake.
3207.1.5.5 (1509.7.1.5.5)	Adds copper to flashing materials and wood shake nails.
3208.4.1 (1509.8.6.1)	
3207.1.5.8 (N/A)	Deletes mortar standards already required in Chapter 14.
3207.1.5.10 (1509.7.1.5.10)	Adds standard for rubber eave enclosure.
3207.2 (1509.7.2)	Specifies minimum/maximum dimensions for concrete and clay tile
3207.3 (1509.7.3)	fasteners.
3207.4 (1509.7.4)	
3214.6 (1509.14.6)	
3215.2 (1509.15.2)	
3207.2.1.7 (1509.7.2.1.7)	Requires felt fastening to be a minimum of 1 inch from edge of felt underlayment for cemented tile.
3207.2.1.7 (1509.7.2.1.7)	Deletes restriction against hot mopping over plastic roof cement.
3207.2.2.7 (1509.7.2.2.7)	Revises tile fastening for better uplift resistance.
3207.4.4 (1509.7.4.4)	
3207.3.1.6 (1509.7.3.1.6)	Revises cricket provisions.
3207.3.2.3 (1509.7.3.2.3)	Requires sealing of metal flange edge.
3207.3.3.7 (1509.7.3.3.7)	Requires felt fastening to be a minimum of 1 inch from edge of felt underlayment for mechanically fastened tile.
3208.1.1 (1509.8.2.2)	Adds minimum grade requirements for shake and shingle hip and ridge units.
3208.1.1 (1509.8.2.10)	Reformats requirements for shingle and shake grades.
Table 3208.2 (Table 1509.8.2)	Clarifies use of yellow pine as treated shakes.
3208.2 (1509.8.2.3)	Adds spaced sheathing provisions to Chapter 32 (15).
3208.2.1 (Table 1509.8.2)	Adds reference to AWP standard C2 for treatment of So. Yellow Pine shingles.
3208.5 (N/A)	Deletes prescriptive configurations for fire retardant shake and shingle roof coverings.

- 3209.1 (1509.9.1) Requires systems to conform with fire and design loads of Chapter 7 and 12 (16), respectively, as a minimum.
- 3209.7 (1509.9) Reformats provisions for sloping built-up roofs.
- 3212.1.2 (1509.12.1.2) Requires design for ballasted membrane roof coverings on R3 buildings.
- 3213 (1509.13) Redefines reroofing and replacement and revises verbiage according to the new definitions.
- 3213.1.4 (1509.13.1.4) Excludes slope requirements for reroofing when roof provides positive drainage.
- 3214.6.1 (1509.14.6.1) Clarifies that aggregate ballasted roofs require gravel stops.
- 3214.6.2 (1509.14.6.2) Clarifies that nonballasted roofs require drip edges.

Appendix Chapters

- App A (A102) Revises waterproofing membrane dead load.
- App E (App E)
E105 (E105) Adds ASTM C727 as a reference for the installation of foil insulation.
- App H (App H)
H101 (H101) Clarifies that the requirements apply to both new and used manufactured homes.
- H102 (H102) Requires that manufactured homes meet the Standard Housing Code.
- H105.1.1 (H105.1.1) Requires diagonal ties over top in accordance with the installation instructions.
- H105.1.3 (H105.1.3) Adds pier location criteria.
- H105.5.1.2 (H105.5.1.2) Requires listing report to be filed with the agency having jurisdiction.
- H105.5.2.2 (H105.5.2.2) Adds reference to Standard Method of Test for Manufactured Home Anchors by SBCCI.
- H106 (H106) Adds specific requirements for listing reports.
- H106 (H106) Defines additional installation requirements.
- App J (App J) Deletes Appendix in its entirety.
- App M (App M) Deletes Appendix in its entirety.

1991 - 1994 SIGNIFICANT CODE CHANGES

The following summary of revisions reflect significant changes made to the 1991 Standard Codes that appear in the 1994 edition. The list is provided as a convenience to the code users and is not intended to be all inclusive. Summaries must be compared to actual revised text to determine the full meaning of each revision.

STANDARD MECHANICAL CODE

The Standard Mechanical Code was reformatted in accordance with the CABO Common Code Format. The section numbers in this summary are based on the 1991 edition. The 1994 edition will include a cross-referencing index listing sections in the 1991 edition with the new section in the 1994 edition. This cross-referencing index will be included in a later edition of the magazine.

Chapter 2 - Definitions

202 (202) Adds definition for: Refrigerant Classification, Combination Smoke and Fire Damper, Unusually Tight Construction. Revises definition for: Boiler, Brazing, Fire Damper, Smoke Damper.

Chapter 3 - Air Conditioning, Heating and Ventilation Equipment

301.4 Adds provisions for seismic supports for equipment.

302.2 (303.1) Adds labeling requirement for fuel burning appliances, air conditioning and heat.

302.4 (303.3) Deletes reference to Chapter 9 and reformats text.

302.4 (303.3) Replaces reference to ANSI B9.1 with ANSI/ASHRAE 15.

302.8.2 (301.7)
302.8.3 (301.7) Deletes clearance requirements for warm air ducts.

302.10 Relocates requirements from 504.7 to this section and adds minimum 1/2 inch mesh.

303.4.2 (304.4)
303.5(7) (304.5)
303.6.2 (304.6) Deletes provisions for electrical outlets, lights and switches.

303.5.1 (304.5)
305.5.2 (304.5) Adds accessibility criteria for equipment installed on exterior grade.

303.6.4 (304.6) Adds wall mounted equipment to access criteria for roof equipment.

303.8 (306.2) Moves provisions to 306.1.6 and 306.15.1.2.

303.9.1 (307) Adds exception that clearances established in a listing cannot be reduced.

Table 303.9 (307) Deletes footnote #7.

Table 304 (1001) Rewords existing note #8.

304 (1001)	Moves provisions to create a new Chapter 9 - BOILERS.
304.7	Adds boiler room criteria from 806 of the Standard Building Code.
305 (701)	Moves provisions to create a new Chapter 10 - COMBUSTION AND VENTILATION AIR
305.3.2 (704)	Removes storm window limitation from combustion air sizing.
306 (801)	Moves provisions to create a new Chapter 11 - CHIMNEYS AND VENTS
306.1.6 (801) 306.15.1.2 (814)	Moves provisions from 303.8.
306.17.3.4 (904)	Clarifies the method to measure the hearth.
307 (401)	Moves provisions to create a new Chapter 12 - VENTILATION SYSTEMS
307.4.1 (403)	Relocates requirements from 504.6 to this section and adds minimum 1/2 inch mesh.
307.4.3 (403)	Reduces flash point from 350°F to 325°F.
307.7	Adds provisions for subsoil ventilation systems
308	Moves provisions to create a new Chapter 13 - EXHAUST SYSTEMS
308.1.3 (503)	Requires bath/shower room air to be exhausted to the outdoors.
308.4.3.1 (505)	Adds sign and access panel requirements for grease hood duct systems.
308.4.7 (505)	Adds shafts for horizontal part of grease ducts in two story buildings.
308.4.8 (505)	Adds size for opening in shaft wall for access to duct cover.
308.4.10 (505)	Adds enclosure criteria for penetrations through 2-hour walls.
308.4.12 (505)	Clarifies that grease duct systems are required even if air cleaning devices are installed.
308.5.3 (506)	Requires access and clearance for exterior exhaust fans in accordance with 303.
308.6 (504)	Adds exception for cabinet type ovens.
308.8.1 (508)	Adds gage requirements for single wall metal pipe for residential range hood exhaust for R-3 occupancies.
308.8.1 (508)	Deletes 1 inch clearance for single wall residential kitchen vent.
308.8.2 (508)	Allows reduced clearances for over the stove cooking apparatus.
308.9.3.1 (509)	Deletes nonspecific clearance requirements for dryer exhaust.

309 (1501) Moves provisions to create a new Chapter 14 - SOLAR ENERGY UTILIZATION

Chapter 4 - Refrigeration

Ch 4 (Ch 11) Revises existing code provisions to add new refrigerants that bring the Standard Mechanical Code in line with ASHRAE 15 and 34. Adds minimum clearance around condensing units for maintenance and inspection.

Chapter 5 - Installation Requirements for Specific Appliances

502 (603) Adds TIMA Fibrous Glass Duct Construction Standards.

502 (603) Adds ADC Flexible Duct Performance Standards.

502 (603) Adds ACCA Manuals D & Q to the list of standards.

502 (603) Changes the reference from TIMA to NAIMA and adds UL 181A to the list of standards.

503.2.1 (604.2) Adds UL 181 test requirements to commercial duct systems.

503.3.2 (604.3) Reorganizes section; deletes Class 2 materials.

503.4 Moves 505 to 503.4, adds the term "duct," and reduces the allowed length of connector material to 4 ft.

504.1.1 (605.1)

504.1.2 (605.1) Requires duct closure systems to pass UL 181A.

506.1.4 (606.1) Reduces lining clearance from electric resistance and fuel burning heaters in a duct system.

506.2.2 (606.2) Separates externally applied and internally applied insulation. Adds minimum thickness for Class 0 and Class 1 rigid ducts.

506.2.2 (606.2) Adds minimum "R" value for air duct insulation; deletes conductance value.

509.1.2 (609.1) Permits duct insulation complying with 506.1.1 and 506.1.2 in plenums.

509.2 (609.2) Replaces the term "barrier" with the term "retarder."

509.2.1.2 (609.2) Deletes flamespread criteria and instead references 509.1.2.

509.2.2.6 (609.2) Updates thermal resistance formula.

510.1 (N/A) Deletes two fire doors for 3-hr walls.

510.1.2 (611) Clarifies the requirements for fire dampers in rated assemblies.

510.1.3 (611) Delete fire damper Exception #2 for exhaust ducts to outside.

- 510.1.3 (611) Delete fire damper exception in shaft walls of sprinklered buildings.
- 510.2.1 (610.1) Requires dampers to meet UL 555 and be listed as either static or dynamic.
- 510.2.2 (610.1) Changes "floor" to "story".
- 510.3 (610.2) Deletes existing section and adds new criteria for smoke dampers.
- 514.5 Adds high rise provisions from 506 of the Standard Building Code.

Chapter 6 - Piping

- Ch 6 (Ch 12) Changes existing title to Fluid Handling and Piping Systems.
- 603.1 (304.8.1) Adds provisions for the condensate disposal system.
- 603.2 (304.8.4) Allows the use of ABS piping in condensate lines, permits traps.
- 603.4 (304.8.6) Adds secondary drain system installation criteria.
- 603.4 (304.8.6) Clarifies provisions for location of auxiliary drain pans.
- 606 (1201.4) Adds provisions for water-source heat pump piping.

Chapter 9 - Reference Standards

- 901 (Ch 16) Replaces reference to ANSI B9.1 to ANSI/ASHRAE 15, adds reference to UL 181A
- 902 (Ch 16) Adds address for Air Diffusion Council, updates name and address of TIMA to NAIMA.

Appendix C - Procedures for Determining Thermal Resistance (R) Values for Air Distribution Ducts and Plenums

- App. C (App. C) Adds criteria for R value test on air ducts and plenums. Clarifies insulation testing requirements.

1991 - 1994 SIGNIFICANT CODE CHANGES

The following summary of revisions reflect significant changes made to the 1991 Standard Codes that appear in the 1994 edition. The list is provided as a convenience to the code users and is not intended to be all inclusive. Summaries must be compared to actual revised text to determine the full meaning of each revision.

STANDARD PLUMBING CODE

The Standard Plumbing Code was reformatted in accordance with the CABO Common Code Format. The section numbers in this summary are based on the 1991 edition. The 1994 edition will include a cross-referencing index listing sections in the 1991 edition with the new section in the 1994 edition. This cross-referencing index will be included in a later edition of the magazine.

Chapter 2 - Definitions

202 (202) Adds definitions for: Pressure, Trap Primer, Trap Seal Primer Valve, and Unstable Ground. Revises definitions for: Interceptor and Plumbing.

Chapter 3 - Basic Principles

301.5 (401.4) Clarifies that the water-seal trap is required only for sanitary drainage systems.

Chapter 4 - General Regulations

401.1.2 (307.1) Clarifies fitting designations for plastic and metallic piping.

401.2 (307.2) Clarifies directional changes for short sweep fittings.

407.3 (304.3) Establishes minimum piping material for pipe sleeves.

407.7 (304.7) Requires protection to prevent nail punctures.

407.7 (304.7) Eliminates protective plate requirement for cast iron, steel, and stainless steel pipe.

415.2 (404.2) Prohibits toilet rooms in public kitchen areas.

Chapter 5 - Materials

501 (303) Updates name of National Sanitation Foundation Testing Laboratory, Inc to NSF.

Table 500 (303, 603, 703) Adds, deletes, or updates standards for plumbing materials.

502.7 (303.7.7) Deletes composite shower pans. Adds PVC shower pans.

504.8 (905.7) Adds requirements for air admittance valves.

504.8.4 (905.7) Clarifies the minimum clearance above insulation and testing requirements for air admittance valves.

504.8.5 (905.7) Adds prohibited use of air admittance valves.

Chapter 6 - Joints and Connectors

602.14.1 (308.8)	Adds ANSI designation to NSF 14.
602.14.1 (308.8)	Clarifies solvent joint requirements.
602.15 (612.5)	Adds new procedures for joints in polyethylene water piping.
602.15.1 (612.5)	Adds fitting types for plastic water pipe.
603.7 (309.3)	Adds provisions prohibiting the connection of dissimilar materials.
604.9 (N/A)	Deletes aluminum DWV and components.
606.1 (708.1)	Requires the closet flange to be attached to the outside diameter of the drainage piping.

Chapter 7 - Traps and Trap Cleanouts

701.2.2 (1001.9)	Adds new requirements for washing machine standpipes.
703.2.1 (710.6)	Deletes provision for fixture traps to be "readily" accessible.
703.5 (1001.5)	Updates section to add mandatory language and allow baffle traps.
704.2.4 (710.2)	Revises cleanout locations.
705.1 (711.1)	
705.2 (711.2)	
705.2.2 (711.2)	Increases distance between manholes from 300 ft to 400 ft.

Chapter 9 - Plumbing Fixtures

901.2 (405)	Adds provisions for water conservation.
Table 901.2 (405)	Revises water conservation requirements.
914.4.2 (409.4.4)	Requires floor drains in elevator pits.
921.3.2 (505)	Prohibits water heaters in rooms used as plenums.
Table 922.2 (407)	Revises table concerning restaurants, clubs and lounges. Revises number of lavatories required for theaters, auditoriums, churches, waiting rooms at transportation terminals and stations.

Chapter 10 - Hangars and Supports

1002.8 (N/A)	Deletes aluminum DWV and components.
1003.8 (N/A)	
1004.3 (310.4.3)	Adds provisions for seismic supports for plumbing.

Chapter 11 - Indirect Waste Piping and Special Wastes

1104 (806) Revises title to reflect text by deleting "or backflow preventer".

Chapter 12 - Water Supply and Distribution

1204.4.3 (606.4) Permits vacuum breakers 1 inch above flood level of fixtures.

1209.1 (610.1) Requires water supply control for each dwelling unit; describes valve boxes.

1209.3.1 (610.3) Allows the fixture shutoff valves to be located at the manifold.

1209.3.3 (610.3) Adds requirements for location of shutoff valves at fixtures.

1210.1.1 (611) Allows PEX for hot and cold water distribution systems.

1210.1.2 (611)

1211.3 (607.3) Changes fixture supply pipe sizes for manifold distribution systems.

1211.4 (607.4) Clarifies minimum pressure required.

1211.9.1 (607.9) Clarifies maximum pressure.

1211.10 (607) Adds requirements for sizing manifolds.

1213.1 (507.3) Prohibits the use of relief valves to control thermal expansion in storage tanks.

1213.7.1 (507.8) Requires water heaters in remote locations have a safety pan.

1213.7.1 (507.8) Revises requirements for safety pans.

1213.7.4 (507.8) Revises requirements for T and P relief valve termination.

1213.8 (613.1) Requires shower temperature control devices in all buildings.

1213.9 (613.2) Requires thermal expansion control devices.

Chapter 13 - Drainage Systems

1301.3.1 (703.3) Deletes aluminum DWV and components.

1301.4 (703.4)

1302.2 (704.2) Clarifies type of fill material.

1302.6 (704.6) Changes minimum building sewer pipe size to 4 inches.

Table 1305.1 (714.1)

Chapter 14 - Vent and Venting

1401.3 (903.3) Deletes aluminum DWV and components.

1401.4 (903.4)

1403.3.1 (904.3)	Clarifies that a main stack may be a stack vent.
Table 1408.1 (908)	Corrects drawing to accurately show a sanitary tee.
1414.1 (913.1)	Adds exception to permit the omission of relief vents.
Table 1420.4 (920.4)	Rewrites individual and branch vent sizing table.

Chapter 15 - Storm Drains

1502.3 (1103.3)	Deletes aluminum DWV and components.
1502.4 (1103.4)	
1507.2 (1109.2)	Requires that the secondary roof drain system discharge in a visible location above grade.
1508.3 (1110.3)	Adds word "additional".

Appendix Chapters

F101.1.1 (App. F)	Clarifies intent with regard to pressure by adding the word "static".
F102.1 (App. F)	
Table F101 (App. F)	Revises load values assigned to fixtures.
F103.1 (App. F)	Clarifies intent with regard to pressure by adding the words "residual" and "flowing".
Figure F103A (App. F)	Deletes existing figure and substitutes three figures (i.e. Type K, L, and M copper).
App. J (901.2)	Deletes without substitution.
App. K (App. J)	Corrects Figure #2.

1991 - 1994 SIGNIFICANT CODE CHANGES

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STANDARD GAS CODE

Chapter 2 - Definitions

- 202 Adds definition for: Gas Convenience Outlet, Labeled, Unusually Tight Construction, Vented Appliance System, and Vent System.
Revises definition for Brazing.

Chapter 3 - Gas Piping Installations

- 305.2 Clarifies section on building pipe sizes.
- Table 305.3.3 Revises tank capacity for water heaters, and add BTU demand values for fireplace log lighters and residential barbecue grills.
- 305.4 Adds sizing criteria for corrugated stainless steel piping.
- 306.1 Deletes the word "consumer's" and substitutes the word "metallic."
- 306.2 Requires corrugated stainless tubing systems to be tested, listed, and installed in accordance with ANSI/AGA LC-1.
- 306.4.1.1 Deletes the use of solder for pipe and tubing joints.
- 306.4.1.2 Deletes the use of solder for pipe and tubing joints. Adds exception permitting the use of metallic ball sleeve compression type fittings in listed interior piping systems.
- 306.4.1.3 Prohibits different material on the same system.
- 308.3.2 Allows Schedule 40 PVC pipe meeting DWV standards to be used as encasement.
- 308.7 Clarifies that gas piping is allowed in inaccessible non-plenum type ceilings or crawl spaces.
- Table 305.4A Corrects inaccuracies in tables.
Table 305.4B
- 305.9.2 Clarifies that gas piping is prohibited from inaccessible plenums.

- 309.6.3 Allows listed gas convenience outlets in addition to listed quick-disconnect devices
 309.7.2
 311.3 Clarifies that test instruments with increments smaller than 1/4 lb are acceptable.

Chapter 4 - Appliance Installation

- 402.4.3 Deletes storm windows from unconfined space note.
 402.4.4.2 Requires 1/4 inch mesh screen to cover combustion air openings.
 402.4.7 Requires additional combustion air opening for dryers regardless of energy source.
 403.1.1 Requires protection for semi-rigid tubing entering a motor operated appliance; allow listed gas convenience outlets in addition to listed quick-disconnect devices.
 403.1.2 Allows listed gas convenience outlets to serve as a shutoff valve.
 405.3 Correlates roof access provisions with the SBC by permitting a portable means of access.

Chapter 5 - Installation Requirements for Specific Appliance

- 501.3 Adds provisions for seismic supports for gas appliance systems.
 504.2.2 Adds minimum dimension criteria for water heater drain pans.
 504.2.2 Revises location of water heater drain pans to be similar to 1213.7.1 of the Standard Plumbing Code.
 507.4.3 Correlates minimum clearances for horizontal type central furnaces with the SMC.
 507.9 References the Standard Mechanical Code for air duct design criteria.
 511.8 Revises units of the thermal resistance (R-value) equation.
 513.4.2 Adds location details for heating equipment in aircraft hangars.
 529 Adds provisions for the installation of compressed natural gas fueling systems.

Chapter 6 - Venting of Appliances

- 607.15 Prohibits vent connectors from connecting to a chimney in an attic.
 608 Clarifies that section applies only to Category I appliances
 611 Adds venting provisions for Category I appliances.
 Table 611.2 Change Note #7 to reduce chimney liner deduction from 35% to 20%.

- 612 Clarifies that gas vent sizing for Category II, III, and IV appliances is to be in accordance with the manufacturer's instructions.

**Chapter 9 - Installation Requirements for Undiluted Petroleum Gases
(Butane and Propane)**

- 902.1.1 Permits the use of plastic pipe for outside underground locations.
902.2.1 Deletes the use of solder for pipe and tubing joints.
902.2.2
902.4 Defines LPG tubing criteria for installation in walls.

Chapter 10 - 2-PSI Gas Piping

- 1003.4.1 Adds sizing criteria for 5 psi systems.
1005.1 Allows nonmetallic pipe to be installed underground outside.

Appendix D - Example Problems

- D305.5 Corrects example problem to agree with revised Table 305.4A; corrects figure number by changing it from E305.5 to D305.5.

Appendix E

- App E Adds sizing table for 5 psi systems.

STATE OF FLORIDA, COUNTY OF PALM BEACH
I, DOROTHY H. WILKEN, ex-officio Clerk of the
Board of County Commissioners certify this to be a
true and correct copy of the original filed in my office
on 2/20/96
DATED at West Palm Beach, FL on 3/16/96
DOROTHY H. WILKEN, Clerk
By: Dydlus A. House D.C.